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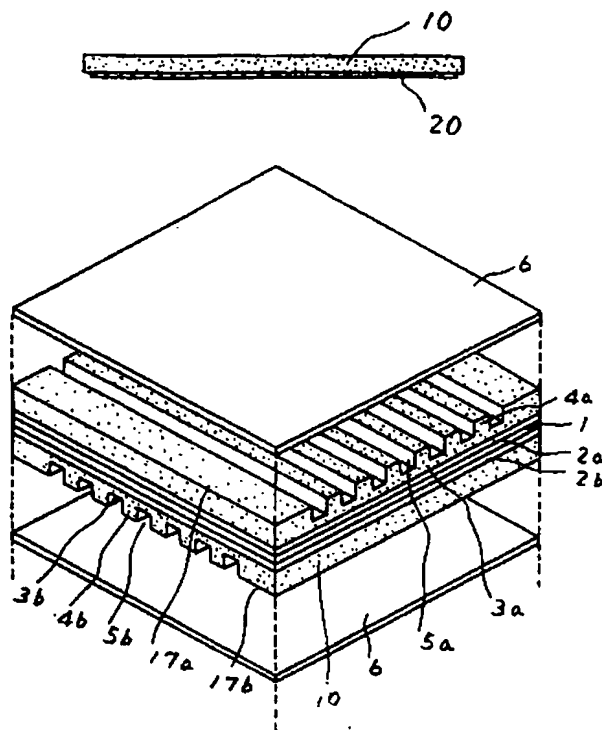
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TITLE : MANUFACTURE OF FUEL CELL



ABSTRACT : **PURPOSE:** To obtain a fuel cell to be machined easily and unsusceptible to thermal stress when heating and cooling by performing masking on the part where the electrodes must be kept in a porous state while effectively injecting a slurry into the part having no masking, followed by performing groove processing.

CONSTITUTION: Carbon fibers are stuck together with phenol resin while being cut and polished for making a plate 10 followed by pasting an adhesive sheet 20 to one side of said plate 10 for being masked. The plate 10 is put into a vacuum container for vacuum-impregnating it with a slurry where powder having an affinity with phosphoric acid such as silicon carbide powder, carbon powder or their mixture is mixed with water. Next, groove processing is performed on the side having no masking. The catalysts 2a and 2b are applied to an anode electrode and a cathode electrode 3 respectively to be baked followed by applying a matrix of an electrolytic layer 1 to them for being baked. The part impregnated with powder having an affinity with water is impregnated with phosphoric acid while sufficiently impregnating the electrolytic layer 1 and the peripheral parts 17a and 17b of the electrodes with phosphoric acid.

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